

Application No. 10/654,798  
In Response to Office Action Mailed on October 31, 2007  
Response Dated: January 31, 2008

## **AMENDMENTS**

### **CLAIMS**

Please amend Claims 6-8, 11-14, 19, 26, 28-30, 34-35 and add new Claims 36-42 as shown in the Listing of the Claims that follows. Please cancel Claims 1-5 and 9. This Listing replaces any prior listings of claims concerning the present Application.

**LISTING OF THE (AMENDED) CLAIMS**

1-5. (Cancelled)

6. (Currently Amended) ~~A method of transmitting time sensitive data from at least a first computing device to at least a second computing device in a telecommunication system comprising:~~

synchronizing ~~said~~ at least a first computing device and ~~said~~ at least a second computing devices to an network time protocol (NTP) server; and

transmitting voice and voice band data from said at least a first computing device to said at least a second computing device in a telecommunication system, said transmitting performed using the Internet.

7. (Currently Amended) The method of Claim 6 wherein said ~~time sensitive data comprises voice or voice band data~~ comprises fax data.

8. (Currently Amended) The method of Claim ~~6~~7 wherein said voice band data comprises ~~fax or modem data~~.

9. (Cancelled)

10. (Original) The method of Claim 6 wherein said at least first and said at least second computing devices comprise residential voice over IP gateways.

11. (Currently Amended) A method of transmitting time sensitive data from at least a first computing device to at least a second computing device in a communication system comprising:

requesting absolute time from an network time protocol (NTP) server;

receiving said absolute time; and

inputting an adjustment parameter derived from said absolute time into a circuitry to synchronize said at least a first computing device to said at least a second computing device.

12. (Currently Amended) The method of Claim 11 wherein said time sensitive data comprises ~~voice or voice band data~~.

13. (Currently Amended) The method of Claim 12 wherein said time sensitive data comprises ~~voice or voice band~~ data.

14. (Currently Amended) The method of Claim 13 wherein said voice band data comprises ~~fax or modem~~ data.

15. (Original) The method of Claim 11 wherein said at least first and at least second computing devices comprise residential voice over IP gateways.

16. (Original) The method of Claim 11 wherein said circuitry comprises a frequency oscillator.

17. (Original) The method of Claim 16 wherein said frequency oscillator comprises a numerically controlled oscillator.

18. (Original) A method of transmitting time sensitive data from at least a first computing device to at least a second computing device in a communication system comprising:

receiving absolute time requests from said at least first and at least second computing devices; and

transmitting said absolute time to said at least first and at least second computing devices; wherein said absolute time is used to synchronize said at least a first and at least a second computing devices.

19. (Currently Amended) A method of synchronizing a transmitting computing device to a receiving computing device of a packet switched telecommunication network comprising:

requesting an absolute time from an network time protocol (NTP) server;

receiving said absolute time; and

inputting an adjustment parameter into a frequency controlling hardware of said transmitting computing device or said receiving computing device.

20. (Original) The method of Claim 19 wherein said transmitting or receiving computing devices comprise residential voice over IP gateways.

21. (Previously Presented) The method of Claim 19 further comprising storing and recalling said adjustment parameter into and from a memory of said transmitting computing device or said receiving computing device.

22. (Original) The method of Claim 21 wherein said storing occurs at a rate determined by a user.

23. (Original) The method of Claim 21 wherein said storing occurs at a rate determined by a variability of the adjustment parameter over time.

24. (Original) The method of Claim 21 wherein said recalling occurs after power cycling or power shut down.

25. (Original) The method of Claim 19 wherein said frequency controlling hardware comprises a numerically controlled oscillator.

26. (Currently Amended) A method of transmitting higher bandwidth voice band data between a first computing device and a second computing device comprising synchronizing one or more said first computing device to said second computing devices to by way of using an network time protocol (NTP) server, said synchronizing performed to improve signal to noise ratio of said voice band data received at said first computing device and said second computing device.

27. (Original) The method of Claim 26 wherein said higher bandwidth voice band data comprises V.90 or V.92.

28. (Currently Amended) A method of improving the signal to noise ratio of voice band data comprising synchronizing one or more computing devices to an network time protocol (NTP) server.

29. (Currently Amended) A method of synchronizing a transmitting computing device to a receiving computing device of a packet switched telecommunication network comprising:

requesting an absolute time from an network time protocol (NTP) server;

receiving said absolute time; and

inputting an adjustment parameter into a frequency controlling hardware of said transmitting computing device or said receiving computing device, wherein said transmitting ~~and~~ receiving computing devices comprise residential voice over IP gateways.

30. (Currently Amended) A method of synchronizing a transmitting computing device to a receiving computing device of a packet switched telecommunication network comprising:

requesting an absolute time from an network time protocol (NTP) server;

receiving said absolute time;

inputting an adjustment parameter into a frequency controlling hardware of said transmitting computing device or said receiving computing device;

storing into said adjustment parameter from a memory of said transmitting computing device or said receiving computing device; and

recalling said adjustment parameter from a memory of said transmitting computing device or said receiving computing device.

31. (Previously Presented) The method of Claim 30 wherein said storing occurs at a rate determined by a user.

32. (Previously Presented) The method of Claim 30 wherein said storing occurs at a rate determined by a variability of the adjustment parameter over time.

33. (Previously Presented) The method of Claim 30 wherein said recalling occurs after power cycling or power shut down.

34. (Currently Amended) A method of synchronizing a transmitting computing device to a receiving computing device of a packet switched telecommunication network comprising:

requesting an absolute time from an network time protocol (NTP) server;

receiving said absolute time; and

inputting an adjustment parameter into a frequency controlling hardware of said transmitting computing device or said receiving computing device, wherein said frequency controlling hardware comprises a numerically controlled oscillator; and

re-evaluating the rate of said requesting said absolute time from said network time protocol (NTP) server.

35. (Currently Amended) A method of transmitting time sensitive data from at least a first computing device to at least a second computing device in a telecommunication system comprising synchronizing said at least first and said at least second computing devices to an network time protocol (NTP) server, wherein said at least first and said at least second computing devices comprise residential voice over IP gateways.

36. (New) A method of synchronizing a transmitting computing device to a receiving computing device of a packet switched telecommunication network comprising:

requesting an absolute time from a network time protocol (NTP) server;

receiving said absolute time; and

inputting an adjustment parameter into a frequency controlling hardware of said transmitting computing device or said receiving computing device, said transmitting or receiving computing devices comprising residential voice over IP gateways; and

storing and recalling said adjustment parameter into and from a memory of said transmitting computing device or said receiving computing device.

37. (New) The method of Claim 36 wherein said storing occurs at a rate determined by a user.

38. (New) The method of Claim 36 wherein said storing occurs at a rate determined by a variability of the adjustment parameter over time.

39. (New) The method of Claim 36 wherein said recalling occurs after power cycling or power shut down.

40. (New) A system comprising:

a first computing device comprising:

a first processor; and

a first memory storing a first software, said first processor and said first memory used for running and executing said first software to request a first absolute time from a network time protocol (NTP) server, said first computing device receiving said first absolute time in response to said request; and wherein a second computing device receives a second absolute time from said network time protocol (NTP) server, resulting in synchronization of said first computing device to said second computing device, said synchronization reducing clock drift between said first computing device and said second computing device such that voice band data transmitted between said first computing

device and said second computing device is received with a higher signal to noise ratio,  
said voice band data transmitted through a packet switched network.

41. (New) The system of Claim 40 wherein said voice band data comprises fax data.

42. (New) The system of Claim 40 wherein said voice band data comprises modem data.